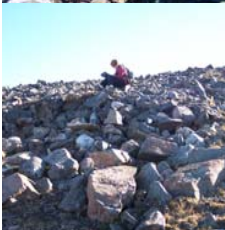
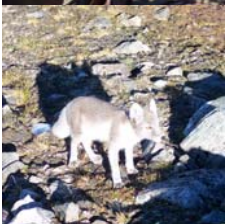


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# MARY RIVER PROJECT

## PROPOSED BULK SAMPLING PROGRAM

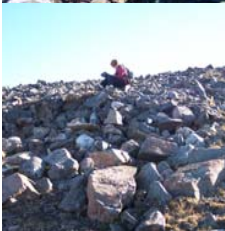
**BAFFINLAND IRON MINES CORPORATION**



# Outline

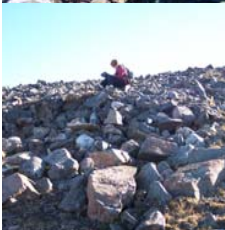
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- Introduction to the Mary River Project
- Bulk Sampling Program – purpose, overview, schedule
- Bulk Sample Mine Plan
- Temporary Facilities
- Road Upgrades
- Supporting baseline studies and permitting
- Consultation
- Training opportunities
- Health and safety
- Environmental management plans
- Questions / discussion



# Mary River Project – Location

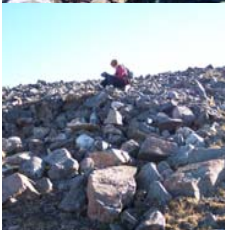




# Mary River Project – Highlights

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- Large high-grade iron ore deposits discovered in 1960s
- Baffinland Iron Mines Corporation (BIMC) started exploration in 2004
- Environmental studies, including Inuit Qaujimajatuqangit (IQ) studies underway since 2005
- Scoping Study completed in May 2006
- Feasibility Study underway, targets late 2007 completion
- Bulk sampling program proposed for 2007/08
- Aim for late 2007 submission of Project Description to begin regulatory processes



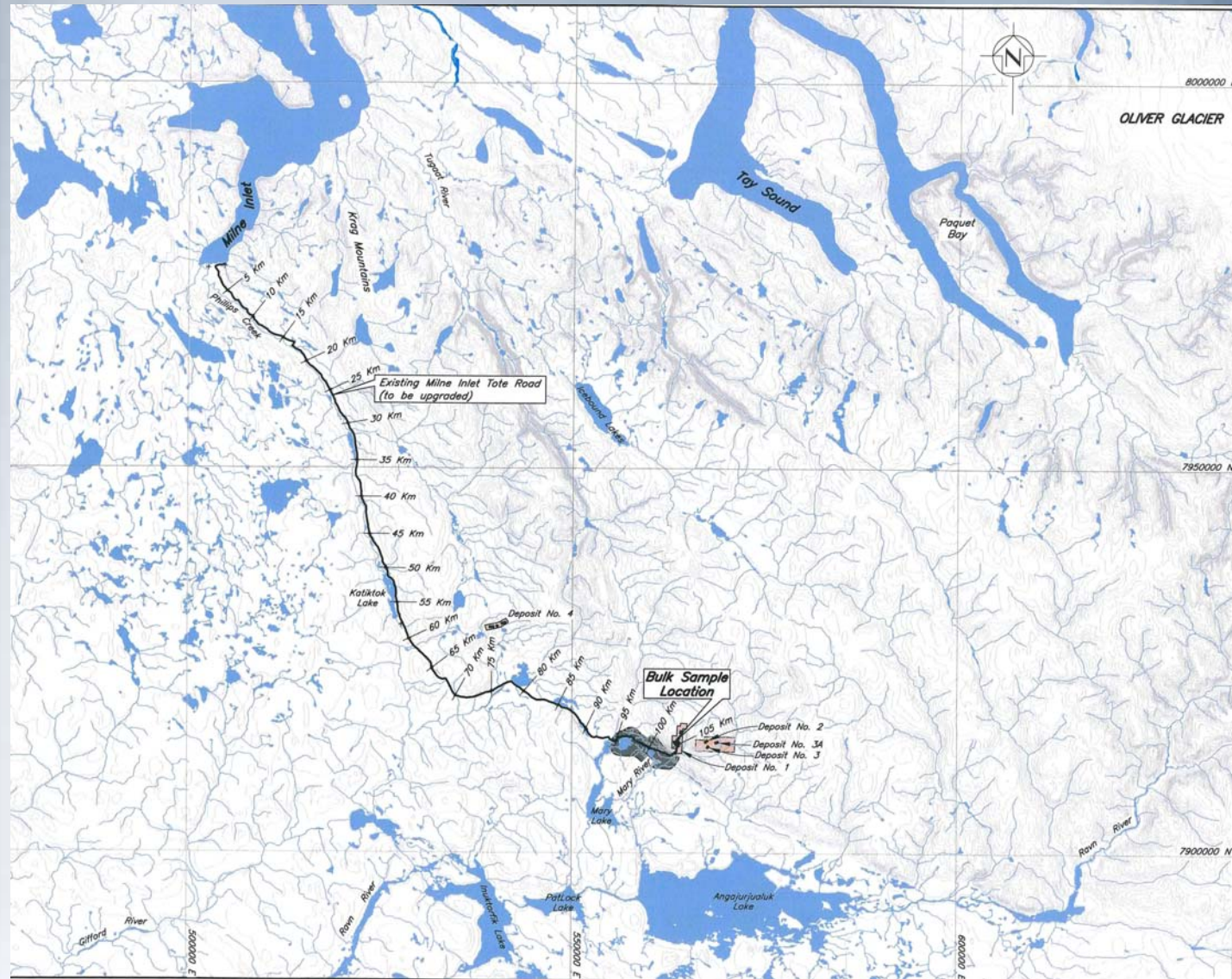
# Consultation

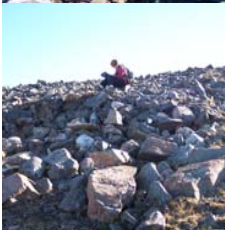
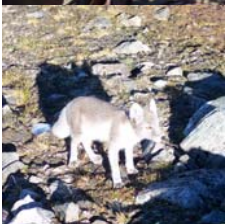
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- With the community of Pond Inlet since 2004
- Approximately 30 employees from Pond Inlet
- Public meetings held in Pond Inlet each year; last public meeting was April 16, 2006
- February 2006 - Baffinland/Knight Piesold established a 7-member Inuit Qaujimajatqangit (IQ) working group, "Pisiksik"
- Late August 2006 – Pisiksik working group will visit Mary River
- September 2006 - a public meeting proposed in Pond Inlet in along with the Qikiqtani Inuit Association, to discuss bulk sampling program



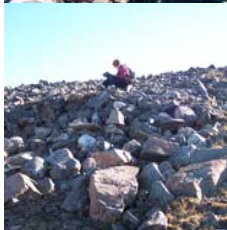
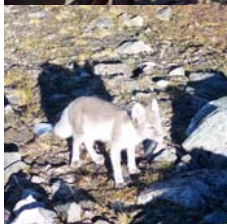
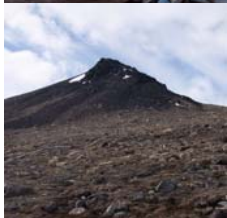
# Existing Facilities





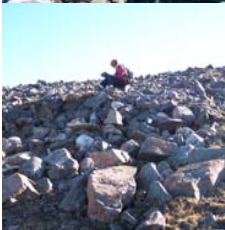
# Milne Inlet Road

- The existing approx. 100-km road (Tote Road) is identified in the Nunavut Land Claim Agreement as a public access road
- Existing road has a number of abandoned culverts, either corrugated steel pipe or drum-culverts. Crossings are in various states of disrepair, or have been completely washed out.
- Baffinland's current water license allows for use as a winter road (March to May)
- Road upgrades required to support ore haul trucks
- July 2006 – preliminary engineering investigation of road conditions
- Detailed plan to upgrade the road will be developed in accordance with the requirements of Nunavut regulatory agencies
- Road to be upgraded in stages with gradual improvement up to the commencement of bulk sample haulage



# Typical Conditions of Existing Tote Road

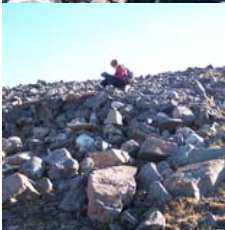




# Bulk Sampling Program - Purpose

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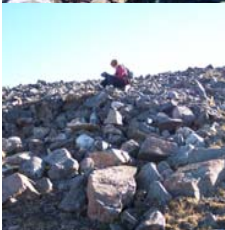
- Demonstrate to potential long-term customers the quality of Mary River ore in their blast furnace processes
- Provide 5 potential customers with 1-month each of production feed (250,000 t ore)
- Provide data sufficient to negotiate marketing contracts with several customers
- Marketing contracts will support project financing



# Bulk Sampling Program - Overview

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- Mine representative samples from two ore types (hematite and magnetite) from two shallow pits within Deposit No. 1
- Transport bulk sample ore over upgraded road to Milne Inlet
- Stockpile ore at Milne Inlet; load 4 - 40,000 t bulk carriers using a ship loader and portable conveyors
- Expand existing tent camp at Mary River; construct temporary camps at Milne Inlet and mid-way along road
- Install supporting infrastructure (i.e., fuel storage, airstrip lighting, etc.)
- Upgrade existing Milne Inlet Tote Road to all-weather capability to support haul traffic



# Bulk Sampling Program - Schedule

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2006

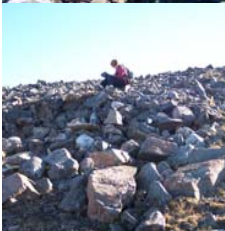
- Q4 – consultation, submit permit applications

2007

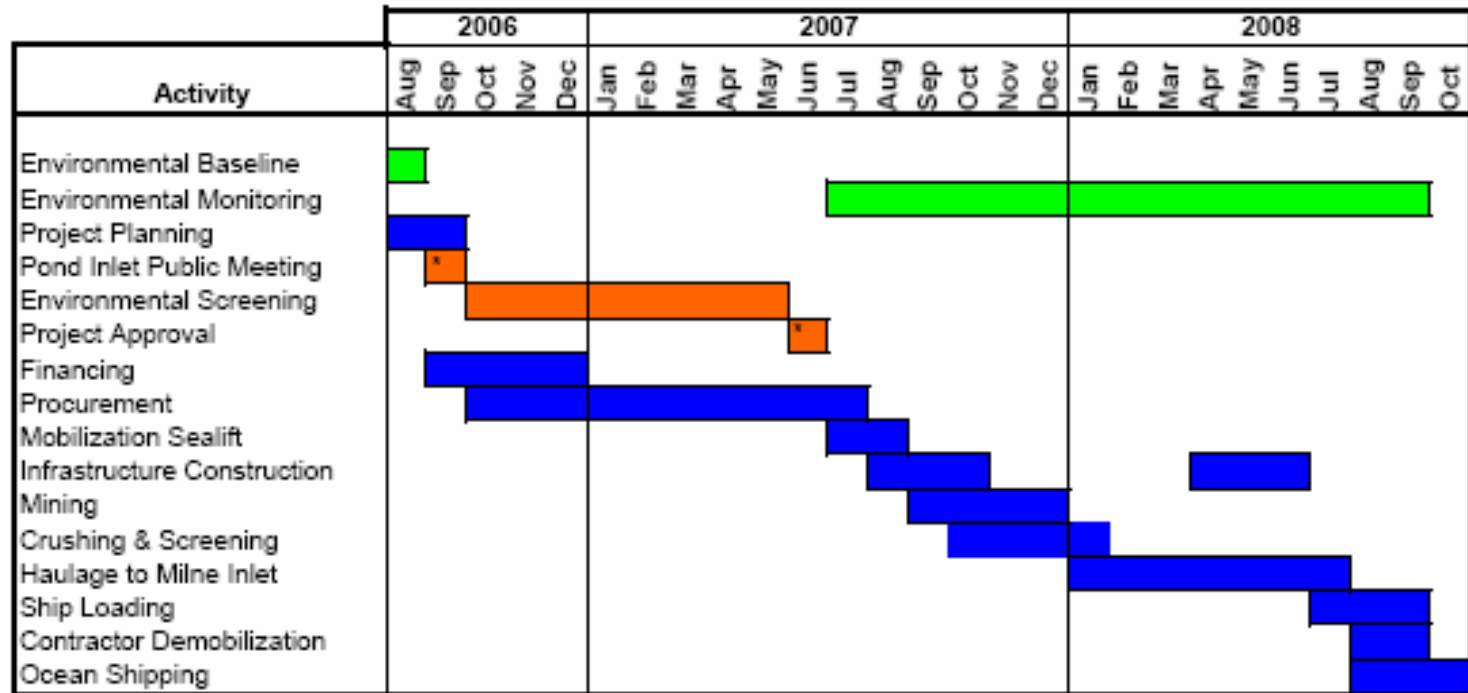
- Q1-Q2 – permitting process completed
- Q3 – initiate road upgrades
- Q4 – mobilize equipment & materials, construct infrastructure, start mining & crushing

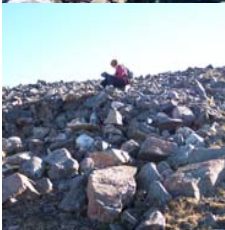
2008

- Q1-Q3 – continue mining and crushing bulk sample; haul bulk sample to Milne Inlet
- Q3 – ship ore to steelmakers; demobilization



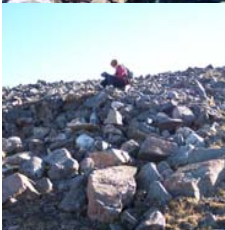
# Bulk Sampling Program - Schedule





# Mary River - Temporary Facilities

- Construct new 100-person tent camp adjacent existing camp, equipped for year-round use
- Other infrastructure upgrades: 400 kW generator, radio tower, maintenance shop, sea container warehousing
- Air access improvements – airstrip grading and lighting; heli-pad
- Fuel storage – 2 locations each with 1.25 million litres diesel in 10 bladder tanks, within lined containment
- Installation of mining equipment, including trucks, drills, portable crusher, screens, explosives magazines



# Consumables

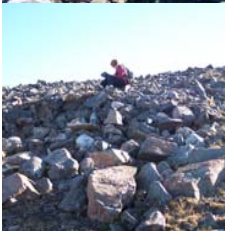
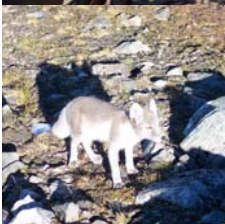
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## Fuel

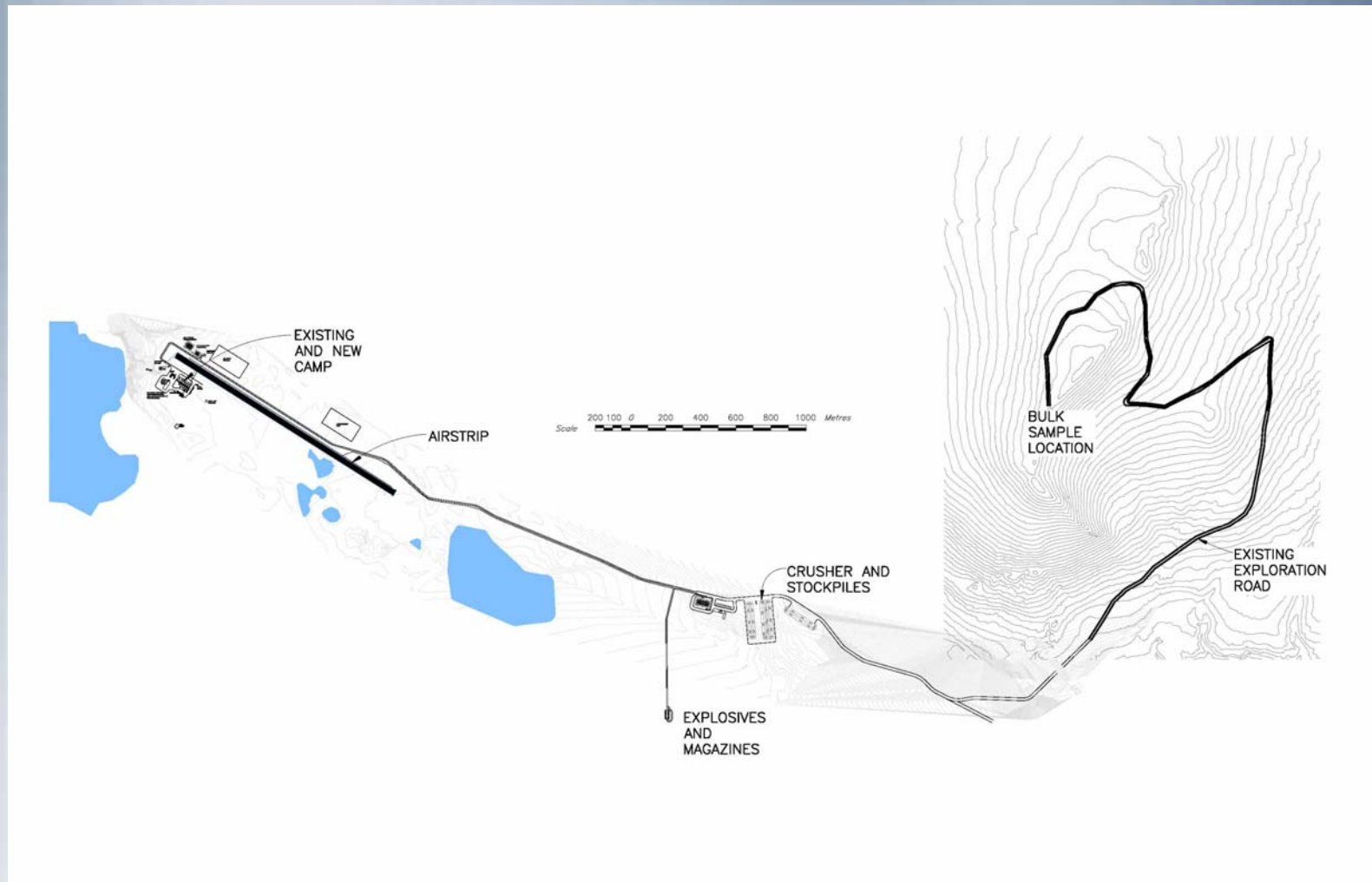
- 6.5 million litres diesel; bladder tanks within lined containment facilities at Mary River, a halfway camp and Milne Inlet

## Explosives

- Pre-packaged emulsion and high explosives (Class A)
- 240 t in 16 explosives magazines; following applicable setback distances



# Mary River - Layout



# Mary River Site Layout – Camp Area



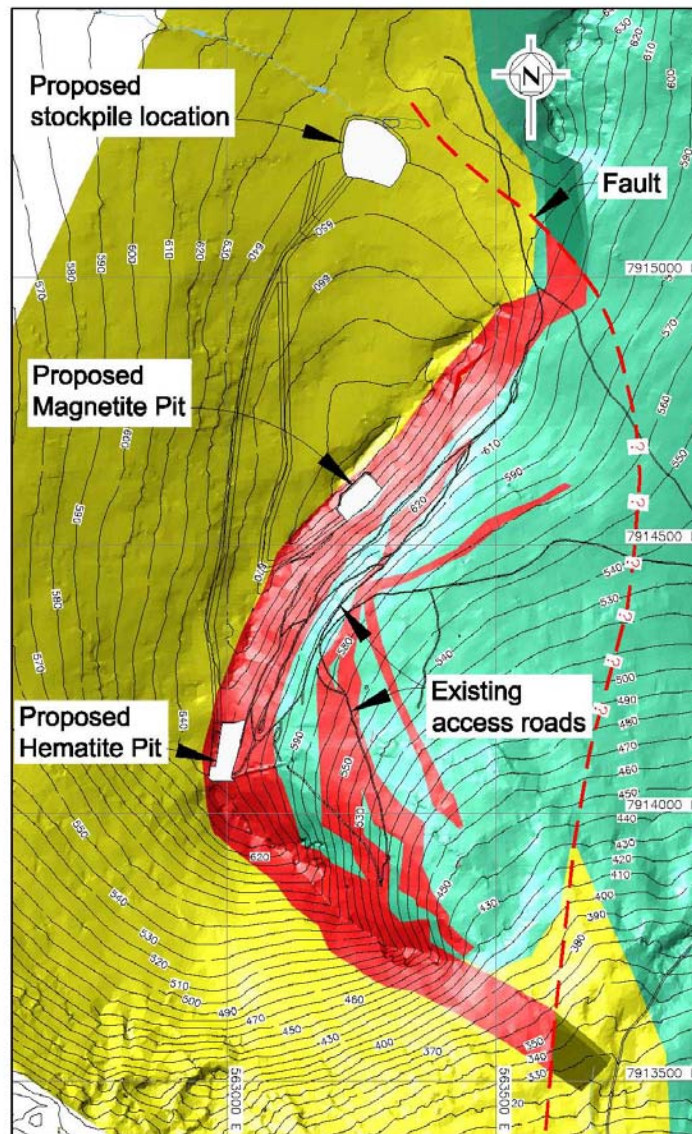


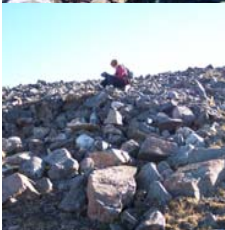
# Mary River Site Layout – Crusher Area





# Bulk Sample Location

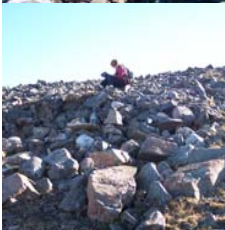




# Bulk Sampling Program – Mine Plan

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- Mine approx. 250,000 t of freshly blasted ore from two small pits
- Hematite pit (125,000 t) and Magnetite pit (125,000 t)
- Blast in 10-m lifts using pre-packaged explosives; excavate rock in 5-m lifts
- Stockpile freshly ore temporarily at temporary crusher
- Low volume of waste rock (15,000 t) stockpiled adjacent pits
- About 170,000 t of weathered ore stockpiled adjacent to the pits
- 6.5 km road to be constructed between pits and crusher
- Mining to be conducted by an experienced mining contractor

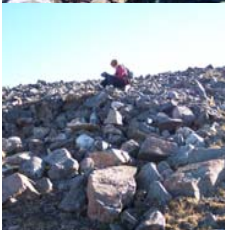


# Milne Inlet - Temporary Facilities

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- Install 30-person trailer camp
- Power supply – 200 kW diesel generator
- Fuel storage - 6.5 million litres; 52 bladder tanks in lined containment
- Ore stockpiles - lump ore + ore fines
- Laydown area (at ore stockpile location)
- Portable conveyors, ship loader, hopper
- Airstrip lighting at existing airstrip
- Heli-pad, communication tower

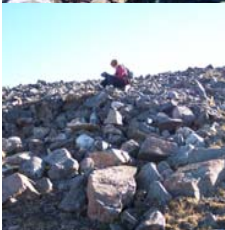




# Half-way Camp

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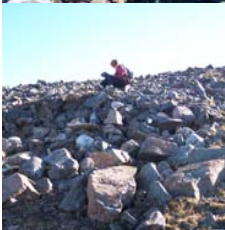
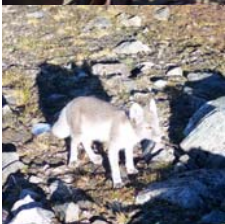
- A temporary camp will be constructed along the road route next to an existing airstrip
- Will service road traffic and respond to any emergencies
- ATCO trailer style, 24-person capacity
- Fuel storage – 274,000 litres within several bladder tanks in lined containment



# Milne Inlet Road Investigations

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- On-site review and documentation of existing road conditions was carried out in late June to early July 2006.
- The work completed included:
  - Fly-over of route to document the general conditions along the existing Tote Road and to identify areas of concern to be reviewed in more detail on ground.
  - On-ground survey - preliminary identification and classification of water crossings, roads foundation conditions and potential borrow materials
  - Photographic documentation, GPS mapping and soil sample collection and geotechnical testing



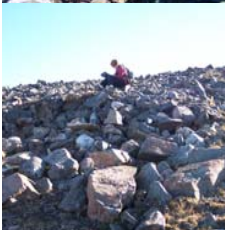
# Proposed Road Upgrades

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Road will be upgraded to allow travel by haul trucks over the majority of the year.

Proposed upgrades/components include:

- (1) Road bed widening to accommodate one-way traffic
- (2) Placement of engineered fill (compacted sand and gravel) to provide an adequate surface for travel and maintenance (i.e. snow clearing and grading)
- (3) In areas of low bearing capacity soils, fill thickness will increase significantly to provide suitable bearing structure and to minimize thawing of thaw-susceptible soils in existing active layer
- (4) Removal (replacement) of existing culvert and barrel-culverts and other historical debris
- (5) Installation/replacement of culverts at water crossings
- (6) Construction of turnout/passing areas along the route



# Typical Areas Requiring Culverts

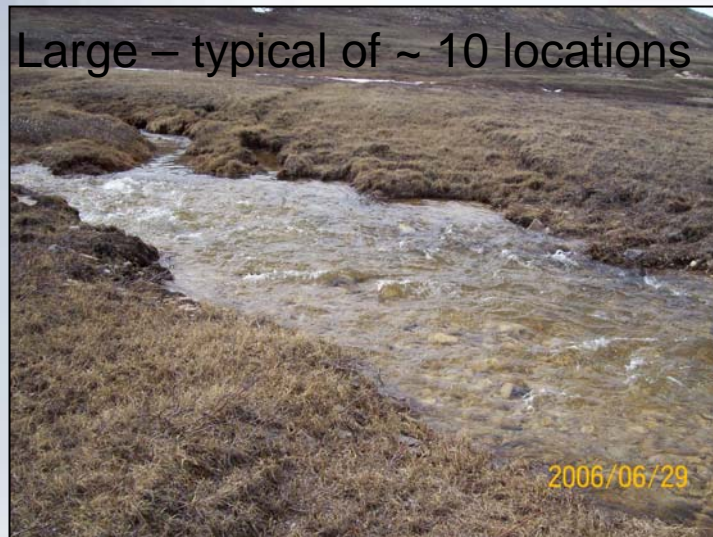
Small – typical of ~ 40 locations



Medium – typical of ~ 45 locations

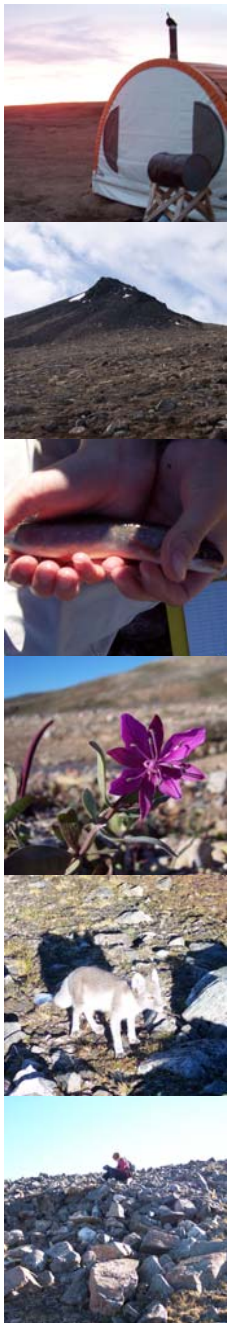


Large – typical of ~ 10 locations



Very Large – typical of ~ 10 locations



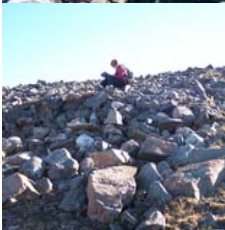
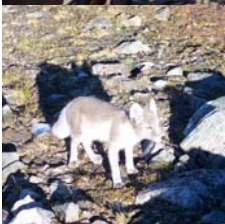


# Major Water Crossings



Major Water Crossings – typical  
of ~ 5 locations





# Required Permits

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## Nunavut Water Board

- Water license - water use/waste disposal (NLCA Article 13)

## Government of Nunavut

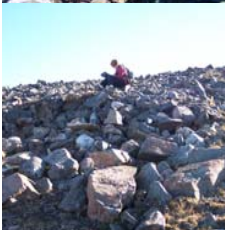
- Explosives Use Act Permit

## Qikiqtani Inuit Association

- Lease on Inuit Owned Lands (NLCA Article 21)
- Quarry (Aggregate) license

## Government of Canada

- *Fisheries Act* authorizations
- *Navigable Waters Protection Act* - exemption/approval
- *Territorial Lands Act* – land use leases and permits, quarry lease/permit
- *Environmental Protection Act* – spill contingency plan



# Regulatory Processes

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- Nunavut Planning Commission review for compliance with the regional land use plan
- Nunavut Impact Review Board screening required before new/amended permits are obtained
- Screening pursuant to the Canadian Environmental Assessment Act before issuance of federal permits
- Individual permits will be issued by the respective regulatory bodies once the screenings have been completed
- Baffinland has planned for 8 months (Oct 06 through May 07) for screening and permitting processes



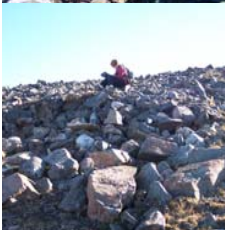
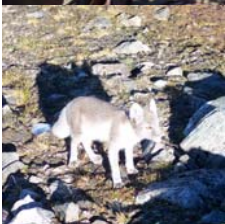
# Focused Environmental Baseline Studies

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Environmental baseline studies modified to support bulk sampling program:

- archaeology
- vegetation
- fisheries
- carnivore surveys of potential aggregate sources, and
- rock geochemistry testing of bulk sample materials

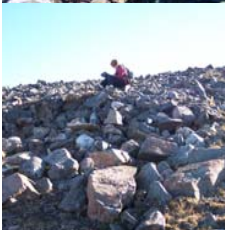
Baseline information will be compiled in an environmental screening document



# Man Power Requirements for Bulk Sample

Company	Average	Peak
Baffinland	6	12
Road contractor	7	7
Mining contractor	40	50
Catering/others	12	20
Total	65	89

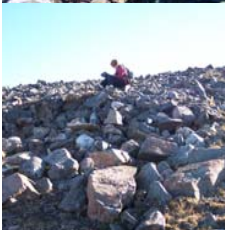
- Crew schedule 6 weeks on-site, 2 weeks off site
- Charter service from Iqaluit 3x/week
- Two 12-hour work shifts per day



# Training Opportunities

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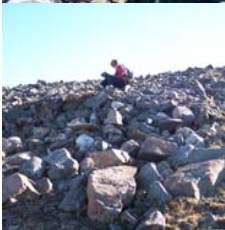
- The bulk sampling program is an excellent training venue for a future mine
- A human resources policy will be developed for the bulk sampling program, formalizing and enhancing Baffinland's existing practices
- A training program will be implemented in consultation with the community and, where possible, in collaboration with applicable agencies
- Training program is expected to include both in-community and on-site components



# Health & Safety

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- Baffinland is developing a health & safety policy
- The current health & safety plan will be revised to meet corporate policy
- Contractors are required to submit their health & safety plans to Baffinland
- A health & safety officer will inspect operations; external audits may be conducted



# Environmental Management Plans

- Emergency response and spill contingency plan
  - Protocols for fuel transfer
  - Regular inspections
  - Spill response equipment
  - Reporting and response plans
- Monitoring plan
  - Sediment and erosion control measures during construction
  - On-site supervision during in-water work (fisheries authorizations)
  - Water and effluent monitoring for water use and waste disposal
  - Monitoring drainage from stockpiles if rock geochemistry results indicate it may be required
- Abandonment and reclamation plan
  - Removal of equipment and hazardous materials
  - Burial of inert wastes on-site
  - Re-grading of disturbed areas; sediment and erosion control
  - Removal of culverts to restore natural drainage
  - Follow-up monitoring

# Questions?

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